REMARKS

Claims 1-44 are pending.

Claims 1-44 stand rejected.

Claim 14 has been amended. Claim 14 has been amended to correct a minor informality and not for reasons of patentability.

Claim Rejections - 35 U.S.C. § 103

Claims 1-44 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,026,362 issued to Kim et al., (referred to herein as "*Kim*") in view of U.S. Patent No. 6,938,245 issued to Spertus et al. (referred to herein as "*Spertus*"), and further in view of U.S. Patent No. 6,167,535 issued to Foote et al. (referred to herein as "*Foote*"). Applicants respectfully traverse the rejection.

Applicants respectfully submit that Claims 1-44 are allowable over *Kim* in view of *Spertus* and *Foote*. For example, Applicants respectfully submit that *Kim* in view of *Spertus* and *Foote* neither teaches nor suggests "displaying [a] user frame of the first web page in the web browser at the workstation, <u>wherein the user frame includes information generated by the application program</u>." Claim 1.

The Examiner admits that *Kim* and *Spertus* "fail to explicitly state receiving a first web page from the server for displaying a user frame in the web browser at the workstation; displaying the user frame of the first web page in the web browser at the workstation, wherein the user frame includes information generated by the application program." Office Action, 9/6/2006, p. 4. The Examiner further states that *Foote* "discloses this limitation in column 7, lines 45-56." Office Action, 9/6/2006, p. 4.

Claim 1 relates to "debugging an application program". *Foote* describes the analysis of a Java program. Applicants respectfully submit that the HTML documents generated by *Foote* is an HTML document <u>that provides results of a query regarding retrieved active objects</u> obtained during run-time of the Java program but is <u>not</u> a "user frame of the first web page in the web

browser at the workstation, <u>wherein the user frame includes information generated by the</u> <u>application program</u>" as required by claim 1. See, *Foote*, col. 6, lines 2-8. *Foote* provides examples of the HTML documents in Figures 8-16.

Foote teaches that, "In order to analyze the execution of a Java program, the user executes the program with a Java virtual machine." *Foote*, col. 6, lines 2-3. "The virtual machine is responsible for interpreting the Java program, and compilation may be performed for increased efficiency." *Id.*, lines 3-6. "FIG. 6 shows a process of storing information regarding active objects obtained during run-time of a Java program." *Id.*, lines 6-8. "The information regarding active objects may be stored in a file or any other computer storage (e.g., memory)." *Id.*, lines 43-44.

"FIG. 7 shows a process of presenting information regarding active objects obtained during run-time." *Id.*, lines 52-53. "At a step 451, the system retrieves stored information regarding active objects." *Id.*, lines 52-55. "The information may include not only information about the active objects themselves, but also their relationships to each other." *Id.*, lines 55-57.

"Once <u>the information regarding the active objects</u> is retrieved, the system receives a user query at a step 453." *Id.*, lines 64-65. "In a preferred embodiment, the query is specified as a Uniform Resource Locator (URL) into a HyperText Transport Protocol (HTTP) server." *Id.*, col. 6, line 65-col. 7, line 1.

The following will describe queries that may be available:

An "All Classes Query" shows all of the classes that were present on the heap at run-time. The classes may be sorted by their fully-qualified class name and organized by package. <u>An example of the results of this query is shown in FIGS.</u> <u>8A-8E</u>.

A "Class Query" shows information about a desired class. The information may include the superclass, any subclasses, instance data members, and static data members. <u>An example of the results of this query are shown in FIG. 9</u>.

An "Instances Query" shows all the instances of a specified class. <u>An example of</u> <u>the results of this query are shown in FIG. 10</u>.

An "Object Query" shows information about an object that was on the heap at run-time. Most notably, one may navigate to objects that refer to this object,

which may be utilized to track down errors. <u>An example of the results of this query are shown in FIG. 12.</u>

A "Roots Query" provides the reference chains from to root set to a specific object. A chain will be provided from each member of the root set from which the object of interest is reachable. In preferred embodiments, the chains are calculated by a depth-first search in order to reduce the length of the chains. Other search techniques may also be utilized. The "Roots Query" is very valuable query for tracking down memory leaks as it may be utilized to determine why an object is still active. <u>An example of the results of this query are shown in FIG. 13.</u>

A "Reachable Objects Query" shows the transitive closure of all objects that are reachable from a specific object. This query may be useful for determining the total run-time footprint of an object in memory. <u>An example of the results of this query are shown in FIG. (after FIG. 12)</u>.

An "All Roots Query" shows all the members of the root set. <u>An example of the results of this query are shown in FIGS. 16A-16E.</u>

Foote, col. 7, lines 3-37.

Thus, the HTML document generated by *Foote* and referenced by the Examiner is not a "user frame of the first web page in the web browser at the workstation, <u>wherein the user frame includes information generated **by the application program**</u>" as required by claim 1. <u>Rather, the HTML document generated by *Foote* represents:</u>

> (i) "classes that were present on the heap at run-time" as shown in Figures 8A-8E;
>
> (ii) "information about a desired class" as shown in Figure 9;
>
> (iii) "all the instances of a specified class" as shown in Figure 10;
>
> (iv) "information about an object that was on the heap at run-time" as shown in Figure 12;
>
> (v) "reference chains from to root set to a specific object" as shown in Figure 13; and

(vi) "the transitive closure of all objects that are reachable from a specific object" as shown in "FIG. (after FIG. 12)", (vii) "all the members of the root set" as shown in Figures 16A-16E.

Foote, col. 7, lines 8-37.

Accordingly, Applicants respectfully submit that *Kim* in view of *Spertus* and *Foote* neither teaches nor suggests claim 1.

Similarly, Applicants respectfully submit that *Kim* in view of *Spertus* and *Foote* neither teaches nor suggests claim 9, which recites in part:

generating information for a first web page, <u>wherein the first web page comprises a user frame that includes information generated by the application program.</u>

Similarly, Applicants respectfully submit that *Kim* in view of *Spertus* and *Foote* neither teaches nor suggests claim 17, which recites in part:

means for presenting the user frame of the first web page in the web browser at the workstation, <u>wherein the user frame that includes information generated by the application program.</u>

Similarly, Applicants respectfully submit that *Kim* in view of *Spertus* and *Foote* neither teaches nor suggests claim 21, which recites in part:

means for generating information for a first web page, <u>wherein the first web page comprises a user frame that includes information generated by the application program.</u>

Similarly, Applicants respectfully submit that *Kim* in view of *Spertus* and *Foote* neither teaches nor suggests claim 29, which recites in part:

> present a first web page in the web browser, <u>wherein the first web page comprises a user frame that includes information generated by the application program</u>.

Similarly, Applicants respectfully submit that *Kim* in view of *Spertus* and *Foote* neither teaches nor suggests claim 36, which recites in part:

> means for generating information for a first web page, <u>wherein the first web page comprises a user frame that includes information generated by the application program</u>.

For at least the foregoing reasons, Applicants respectfully request withdrawal of the rejection of independent claims 1, 9, 17, 21, 29, and 36. For at least the same reasons, Applicants respectfully request withdrawal of claims directly or indirectly dependent upon claims 1, 9, 17, 21, 29, and 36.

CONCLUSION

In view of the remarks set forth herein, the application is believed to be in condition for allowance and a notice to that effect is solicited. Nonetheless, should any issues remain that might be subject to resolution through a telephonic interview, the examiner is requested to telephone the undersigned at (512) 338-9100.

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Respectfully submitted,

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